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[Gustavo Rieck, Wilson C. Heinen](#)
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Single-language runtime systems, in the form of Java virtual machines, are widely deployed platforms for executing untrusted mobile code. These runtimes provide some of the features that operating systems provide: interapplication memory protection and ...

**Keywords:** Robustness, garbage collection, isolation, language runtimes, resource management, termination, virtual machines

**2 Efficient off-board deployment and customization of virtual machine-based embedded systems**
[Alexandre Courtot, Gilles Grimaud, Jean-Jacques Vandewalle](#)
[February 2010 Transactions on Embedded Computing Systems \(TECS\)](#), Volume 9 Issue 3

Publisher: ACM

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This article presents a new way to deploy and customize embedded virtual machine based operating systems for very restrained devices. Due to the specificity of restrained embedded devices (large usage of read-only memory, very few writable memory available, ...

**Keywords:** Embedded operating systems, Java, deployment, program customization, software analysis

**3 MJ: a rational module system for Java and its applications**
[John Corwin, David F. Bacon, David Grove, Chet Murthy](#)
[November 2003 OOPSLA '03: Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications](#)

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While Java provides many software engineering benefits, it lacks a coherent module system and instead provides only packages (which are primarily a name space mechanism) and classloaders (which are very low-level). As a result, large Java applications ...

**Keywords:** Java, components, language design, modularity

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